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Photochemical conversion of hop extracts in liq. or carbon di:oxide -
by irradiation under pressure to convert alpha acids to iso:alpha acids

FR2590589A1: NOUVEAU PROCEDE DE TRANSFORMATION
PHOTOCHIMIQUE D'EXTRAITS DE HOUBLON ET DISPOSITIF POUR LA
MISE EN OEUVRE DE CE PROCEDE.

Assignee:

CNRS CENT NAT RECH SCI Standard company
Other publications from [CNRS CENT NAT RECH](#)
[SCI \(CNRS\)](#)...

Inventor:

ANDRE J C; SAID A; VIRIOT M L;

Accession/

Update:

IPC Code:

1987-193400 / 198728

B01J 19/08 ; C07C 45/67 ; C07C 49/74 ; C12C 3/00

Derwent Classes:

D16;

Manual Codes:

D05-B(Brewing, ethanolic fermentation [general
and others])

Derwent
Abstract:

(FR2590589A) Photochemical conversion of hop extracts obtd. by treating hops with liq. or supercritical CO₂ involves photochemical irradiation under pressure of extracts contg. alpha and beta acids in soln. in liq. or supercritical CO₂, to cause quantitative conversion of the alpha acids into iso-alpha acids. Pref. the molar concn. of the hop extract is 10 power (-3) to 10 power (-2)/1, and the CO₂ soln. may contain a small amt. of a co-solvent, e.g. ethanol. Pref. treatment is at 50-300 bars and 0-75 deg.C, using radiation of wavelength 250-450nm. Irradiation is by photon emitter, which is a laser, discharge lamp, incandescence lamp, or the sun, placed outside the reactor. Or the radiation may be emitted by a non-stigmatic source of photons inside the reactor and in the soln., with radiation below 330nm and above 370nm eliminated by an optical filter. The radiation giving optimum yield is selected by a selective optical filtration system; opt., the radiation giving max. yield during the course of the reaction is selected by a selective optical filtration system as a function of the progress of the reaction. Selection may be by a fluorescent relay formed by a fluorescent liq. placed between the source of radiation and the reactor. The radiation source may be doped by a metallic halide to modify the spectrum of the rays emitted by the source.

USE/Advantage - Chemical conversion is avoided. Conversion to iso-alpha acids is more rapid, and the steps of solubilisation and sepn. are avoided. Hops are used in mfr. of beer.

Dwg. 0/9

Family:

PDF Patent

Pub. Date:

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Language:

IPC Code:

FR2590589A * 1987-05-29 198728 26 French B01J 19/08

Local apps.: FR1985000017436 Filed:1985-11-26 (85FR-0017436)

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tatus

Priority Number:

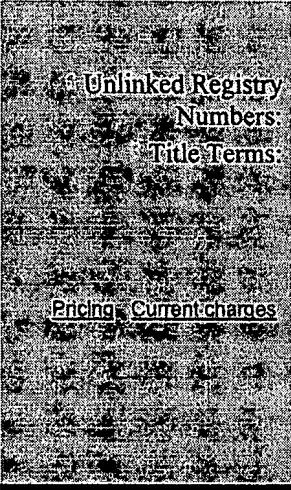
Application Number:

Filed:

Original Title:

FR1985000017436

1985-11-26



1066U

PHOTOCHEMICAL CONVERT HOP EXTRACT LIQUID CARBON DI
OXIDE IRRADIATE PRESSURE CONVERT ALPHA ACID ISO
ALPHA ACID

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